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of the food of fishes; also on the retardation of the development of the eggs of the shad, a very interesting essay; and Mr. H. J. Rice also writes upon the same subject, while Mr. S. A. Forbes reports on the first food of the common whitefish, which consists of the smallest species of Entomostraca.

THE WOODS AND TIMBERS OF NORTH CAROLINA.—This is a compilation by P. M. Hale, from the botanical and geological reports of Drs. Curtis, Emmons and Kerr, to which are added information obtained from the Census Bureau, with reports from the several counties. A recent visit shows great improvement in the business activity and condition of the State. The Agricultural Department, by its museum and timely, authoritative publications like the present and others elsewhere mentioned, is doing a great deal in making the forests and mineral resources of the State better known, both at home and abroad. North Carolina is famous for its vast forests, and this hand-book is an interesting and valuable résumé of the characteristics and distribution of the forest trees of the State. The book owes its value largely to the original report of the Rev. Dr. Curtis printed in Emmon's Report on the Geology of the State, and reproduced in full.

A BOTANIST'S VACATION.¹—A delightful little book from the pen of the genial Professor of Botany in the University of Pennsylvania reaches us just as the annual longing for rest and recreation comes to every brain-worker. It is a sermon in the gospel of relaxation, and it is so well preached that every reader will want to get a boat and follow the sailor-botanist down and up and across the Chesapeake and Delaware bays. There is a good deal of botanical inspiration in the book, and it is well worth reading by any one proposing to take a few week's run on the water. —C. E. B.

RECENT BOOKS AND PAMPHLETS.

Davis, W. M.—Whirlwinds, cyclones and tornadoes. Boston, 1884. From the author.

National Academy of Sciences.—Report of the National Academy of Sciences for the year 1883. Washington, 1884. From the Academy.

Barrois, Chas.—Memoire sur les Gres métamorphiques du massif granitique du Guéméné (Morbihan). Ext. des Annales de la Soc. Geol. du Nord, Lille, 1884. From the author.

Dollo, M. L.—Note sur le Batracien de Bernissart. Ext. du Bulletin du Musée Royal d'Histoire naturelle de Belgique, 1884. From the author.

—Note sur les Restes de Dinosauriens rencontrés dans le crétacé supérieur de la Belgique. Ext. idem., 1883. From the author.

—Première note sur les Cheloniens de Bernissart. Ext. du Bull. du Mus. Roy. de Belgique, 1884. From the author.

Cope, E. D.—The Batrachia of the Permian period of North America. Ext. Amer. Nat., 1884. From the author.

¹ *Vacation Cruising in Chesapeake and Delaware Bays.* By J. T. Rothrock, M.D., Professor of Botany in the University of Pennsylvania. Illustrated. Philadelphia, J. B. Lippincott & Co., 1884. 12mo, pp. 262.